ABSTRACT OF THE DISCLOSURE

The invention relates to compositions and methods for reverse gene therapy, wherein a gene therapy vector encoding a gene product (e.g. a protein) which is usually only expressed in cells of an abnormal tissue is delivered to a cell of an animal afflicted with a disease or disorder to alleviate the disease or disorder. In one embodiment, a plasmid vector encoding HERG (A561V) protein is delivered to a cell of an animal afflicted with re-entrant atrial flutter-mediated cardiac arrhythmia.